

STATINTL

April 1, 1966

Declass Review by NIMA/DOD

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Attention: [REDACTED]
Subject: Proposed Modification to Contract [REDACTED]
Reference: Zoom Magnifier

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Gentlemen:

[REDACTED] is pleased to submit a revised proposal for an improved Zoom Magnifier. Listed below are specifications which the improved design promises to satisfy:

Item #1 - Resolution - Resolution will be measured on axis utilizing a suitable infinity optical bench. Axial resolution will be at least 8 lines per millimeter per power at magnification settings of 7x, 13x and 18x. *AT LEAST 5 lines at edge of visible field and should not depart from these readings by 2% for other power.*

Item #2 - Field Size - A camera entrance pupil of 4mm diameter will be placed 10mm above the eye lens. A photograph of a rectangular field of known graduations will be measured to determine the field of view. The diameter of the field of view will be 16mm at 7x, 10mm at 13x and 5mm at 18x. The magnifier will be focused for infinity for this test.

Item #3 - Magnification - Magnification will be computed from the focal length as measured on a suitable infinity bench. The magnification will span at least the range from 7x to 18x. The equation used for magnification calculation is:

Magnification = $254/f + 1$, when f is the focal length in millimeters.

Item #4 - Height - The height will be measured at 7x magnification with the magnifier focused for infinity. The nominal maximum height will be 106mm or less.

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Item #6 - Weight - The weight of the magnifier will be approximately 10 ounces.

Attached is our current proposal for the improved version of the zoom magnifier. We would be pleased to discuss final arrangements with you concerning the possibilities of supplying an award type of contract for completion of this contract. If you have any questions concerning our proposal, please contact the writer directly.

Very truly yours,

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:HOM
Enc.

Contract Administrator
Photogrammetric Contracts Section

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